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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,156	01/27/2006	Koji Akiyama	2006_0050A	1981
52349 WENDEROTT	7590 11/04/200 H, LIND & PONACK I		EXAM	MINER
2033 K. STREET, NW			CERULLO, LILIANA P	
SUITE 800 WASHINGTON, DC 20006		ART UNIT	PAPER NUMBER	
	. ,		2629	•
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			11/04/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. 10/566,156 AKIYAMA ET AL. Office Action Summary Examiner Art Unit

Applicant(s)

	LILIANA CERULLO	2629					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Estatssions of time may be available under the provision of 30°CR1. It after SIX (6) MONTHS from the making date of this communication of 18°CR1 is after SIX (6) MONTHS from the making date of this communication of 18°CR period for reply is specified above, the maximum statutory prioriod. Finally to for puly within the set of outsinding period for reply will be set to read the set of the se	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin 11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this of (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 27 Ja	nuary 2006						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
•							
	Claim(s) 1 and 2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	,						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
·· ·							
 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 27 January 2006 is/are: 		to by the Evamin	or				
Applicant may not request that any objection to the		-	ici.				
Replacement drawing sheet(s) including the correcti			FR 1.121(d).				
11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
• • • • • • • • • • • • • • • • • • • •							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		-(d) or (f).					
Certified copies of the priority documents							
2. Certified copies of the priority documents							
Copies of the certified copies of the prior	•	ed in this National	Stage				
application from the International Bureau * See the attached detailed Office action for a list		d					
See the attached detailed Office action for a list	or the certified copies not receive	u.					
Attachment(s)	4) 🗖 Intensions Summers	(DTO 442)					

 Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____. 1) Notice of Neterences used (+10-692)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/Sbi08) 5) Notice of Informal Patent Application 6) Other: ____ Paper No(s)/Mail Date 1/27/2006.

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPC2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPC 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPC 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPC 944 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is rejected on the ground of nonstatutory obviousness-type double
patenting as being unpatentable over claim 1 of of U.S. Patent No. 7,338,337. Although
the conflicting claims are not identical, they are not patentably distinct from each other
because the instant claim 1 is an obvious variation of the patented claim 1.

For example, the instant claim 1 teaches in the first aging period the scan voltage higher than the sustain voltage, and vice versa in the second aging period; the copending claim 1 teaches an equivalent limitation by claiming an alternating voltage between the scan and the sustain. All other limitations are similar as shown by the underlined limitations in the table below.

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Instant Claim 1 A method of aging a plasma display panel having scan electrodes, sustain electrodes, and address electrodes, in which voltage is applied to at least the scan electrodes and the sustain electrodes, the method contains a first aging period in which at least any one of the scan electrodes, the sustain electrodes, and the address electrodes undergo an application of voltage for suppressing a self-erase discharge that follows an aging discharge generated by application of voltage in which the scan electrodes carry a voltage level higher than the sustain electrodes; and a second aging period in which at least any one of the scan electrodes, the sustain electrodes, and the address electrodes undergo an application of voltage for suppressing a selferase discharge that follows an aging discharge generated by application of voltage in which the sustain electrodes carry a voltage level higher than the scan electrodes.

A method of aging a plasma display panel containing a scan electrode, a sustain electrode, and a data electrode, the method comprising: when applying a voltage having an alternating voltage component at least between the scan electrode and the sustain electrode to perform an aging discharge. applying an erase discharge-suppressing voltage for suppressing an erase discharge that occurs after the aging discharge to at least one of the scan electrode and the sustain electrode. at a predetermined moment in each of a portion of a period of the alternating voltage component of the voltage when the scan electrode has a voltage level that is higher than that of the sustain electrode and a portion of the period of the alternating voltage component of the voltage when the sustain electrode has a voltage level that is higher than that of the scan electrode

US 7,338,337 Claim 1

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Hashimoto et al. in US 2002/0008680 (hereinafter Hashimoto) in view of Sugimoto et al. in US 2004/0070575 (hereinafter Sugimoto).

Hashimoto teaches a method of driving a plasma display panel (para. 2) for stabilizing light emission (para. 299) having scan electrodes (Y of Fig. 7B), sustain electrodes (X of Fig. 7A), and address electrodes (108c of Fig. 32), in which voltage is applied to at least the scan electrodes (Fig. 7A) and the sustain electrodes (Fig. 7B), the method contains a first period (period of Fig. 7A that encompasses the positive and immediate negative assistant pulse applied to the scan electrodes Y) in which the scan electrodes undergo an application of voltage (negative assistant pulse of Fig. 7A) for suppressing a self-erase discharge (as noted in Fig. 7A and explained in para. 181) that follows a discharge (as shown in Fig. 7C by light emission when positive voltage is applied to Y) generated by application of voltage (positive voltage of Y electrode in Fig. 7A) in which the scan electrodes (Y electrodes) carry a voltage level higher than the sustain electrodes (as shown by comparing Figs. 7A and 7B, during the time the scan electrodes Y are applied with a high voltage, the sustain electrodes have a zero voltage); and a second period (period of Fig. 7B that encompasses the positive and

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immediate negative assistant pulse applied to the sustain electrodes X) in which the sustain electrodes (negative assistant pulse of Fig. 7B undergo an application of voltage (negative assistant pulse of Fig. 7B) for suppressing a self-erase discharge (as noted in Fig. 7A and explained in para. 181) that follows a discharge (as shown in Fig. 7C by light emission when positive voltage is applied to X) generated by application of voltage (positive voltage of X electrode in Fig. 7B) in which the sustain electrodes (X electrodes) carry a voltage level higher than the scan electrodes (as shown by comparing Figs. 7B and 7A, during the time the sustain electrodes X are applied with a high voltage, the scan electrodes have a zero voltage).

Hashimoto does not teach the above driving method for light emission stabilization to be applied during aging of a plasma display.

However, Sugimoto teaches that an aging process is to have the whole area of a PDP emit light and keep doing it till the light emission is stabilized (Sugimoto, para. 208), therefore teaching driving the display device during the aging process to emit light (or an image).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Hashimoto's driving method for stabilizing light emission during the aging period, as driving a display is part of the aging process (as taught by Sugimoto), and the objective of the aging process is to stabilize the light emission, and the use of Hashimoto's driving method in the aging of a plasma display will provide the benefit of improving light-emitting efficiency (as taught by Hashimoto in para. 81) by intensifying

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the second discharge using an assistant pulse to compensate for the self-erase discharge.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto et al. in US 2002/0008680 in view of Sugimoto et al. in US 2004/0070575 as applied to claim 1, in further view of Yoo in US 7,713,374.

Hashimoto in view of Sugimoto do not teach the second aging period lasting shorter than the first aging period. However, Yoo teaches a PDP apparatus where the scan and sustain electrodes have different protrusion sizes (Yoo, col. 4 lines 40-43 referring to Fig. 4), and as a consequence, the period during which a voltage is applied to the scan electrode (Yoo, Fig. 4, T2) is shorter than the period during which a voltage is applied to the sustain electrode (Yoo, Fig. 4, T1) during a sustain period (Yoo, Fig. 4, unit pulse).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to shorten Hashimoto in view of Sugimoto's first aging period during which a voltage is applied to the scan electrode (as explained for claim 1), to be shorter than the second aging period during which a voltage is applied to the sustain electrode (as explained for claim 1), in order to use Hashimoto in view of Sugimoto's aging method in Yoo's PDP apparatus with different electrodes protrusion sizes, and thus, obtain the added benefit of Yoo's apparatus of effectively generating an address discharge because of the large size of the protrusion of the scan electrode (Yoo, col. 5 lines 56-63).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LILIANA CERULLO whose telephone number is (571)270-5882. The examiner can normally be reached on Monday to Thursday 8AM-4PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on 571-272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LC

/Amr Awad/ Supervisory Patent Examiner, Art Unit 2629